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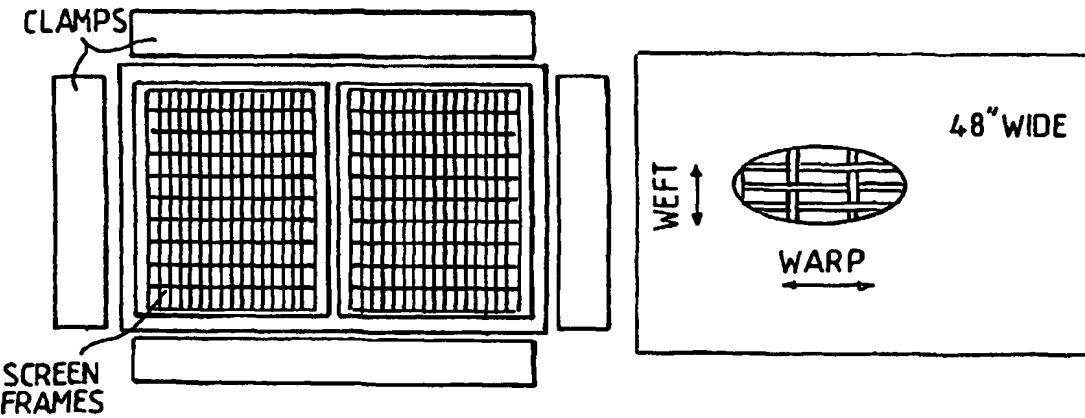
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(54) Title: FILTERING SCREEN



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(57) Abstract: A screen is described for use in a vibrating machine for separating solids from liquid material, comprising woven wire cloth of orthogonal warp and weft wires, tensioned and bonded to a support structure defining at least one rectangular opening across which the cloth extends. The orientation of the cloth is chosen so that the warp wires extend across the width (i.e. shorter dimension) of the or each opening. A method of manufacturing two screens side by side in a jig involves laying a length of woven wire cloth across two rectangular frames laid side by side in the jig with longer edges thereof abutting, and orientating the cloth so that the warp wires extend continuously across the two screens. The cloth is bonded to the frames after which it is severed along the join and surplus cloth is trimmed away from the edges of the frame. If the cloth has a square mesh and the warp wires are of greater cross section than the weft wires, the warp wires will extend across the width of the frame, and if the cloth has a rectangular mesh, the greater number of warp wires per unit length will also extend across the width of the frame, so that in each case warp wires will resist in use the stresses across the width of the central region of the or each opening.



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

International Application No  
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A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B07B1/46

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B07B B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/023883 A1 (ADAMS THOMAS C ET AL) 28 February 2002 (2002-02-28) page 4, paragraph 34 page 5, paragraph 58 page 5, paragraph 61 page 6, paragraph 64 page 5, paragraph 68 figures 4A,5A,9-13	1-10,13
X	----- US 3 012 674 A (GERHARD HOPPE) 12 December 1961 (1961-12-12) column 1, line 60 - column 2, line 1	1,9
X	----- US 3 094 302 A (STAUFFER ARTHUR L) 18 June 1963 (1963-06-18) column 2, line 32 - column 2, line 37	1,9
A	column 2, line 60 - column 2, line 67; figures 1-4	11
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

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**INTERNATIONAL SEARCH REPORT**Intern..... Application No  
PCT/GB2004/001527**C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2 211 081 A (SINCLAIR PETER S) 13 August 1940 (1940-08-13) page 2, line 32 - page 2, line 73 -----	1,11,14

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB2004/001527

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-14

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14

an integral screen wherein the warp wires extend across the width and the weft wires extend across the length of the rectangular opening and method of making the same.

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2. claims: 15-17

a hook-strip screen wherein the attachment edges are parallel to the weft wires and the warp wires extend between the edges.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern	Application No
PCT/GB2004/001527	

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 3094302 A	18-06-1963	NONE	
US 2211081 A	13-08-1940	NONE	